



<110> Balloul, Jean-Marc  
Paul, Stephane

<120> Poxvirus With Targeted Infection Specificity

<130> 032751-052

<140> US 09/832,899  
<141> 2001-04-12

<150> US 60/246,080  
<151> 2000-11-07

<160> 21

<170> PatentIn version 3.1

<210> 1  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer to amplify the MVA 138L gene and flanking region

<400> 1  
cagactggac ggcgtccata tgag 24

<210> 2  
<211> 61  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense PCR primer to amplify the 3' end of MVA 138L gene and  
3' flanking region

<220>  
<221> gene  
<222> Complement((1)..(61))  
<223>

<400> 2  
catttttttaa gtatagaata aaagatcccg ggagtaccat cgtgattctt accagatatt 60  
a 61

<210> 3  
<211> 61  
<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer to amplify E. coli gpt gene and H5R promoter

<220>

<221> gene

<222> (1)..(61)

<223>

<400> 3  
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g 61

<210> 4

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense PCR primer to amplify E. coli GPT gene and pH5R promoter

<400> 4  
ggggttaatt aaggaagtta aaaagaacaa cgccc 35

<210> 5

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer to amplify the upstream region of MVA 138L gene

<400> 5  
gggggaattc gagcttatag cgtttagttc aggtacgg 38

<210> 6

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense PCR primer to amplify the upstream region of the MVA 138L gene

<400> 6  
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<210> 7  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> antisense primer to amplify the upstream region of teh MVA 138L gene

<400> 7  
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<210> 8  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer to amplify the MVA 138L gene and its downstream region

<400> 8  
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<210> 9  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> antisense PCR primer to amplify the MVA 138L gene and its downstream region .

<400> 9  
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<210> 10  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer to amplify SM3 scFv sequence

<400> 10  
 cgagagtgt cagtttctaa aatctgtact ttaaatggtg cagctgcagg agtctggagg 60

aggcttgg

68

<210> 11  
 <211> 58  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> antisense PCR primer to amplify the SM3 scFv sequence

<400> 11  
 gatcgtcatc tccggggaaa agagttccgt ccatcagttt gggtcctcca ccgaacac 58

<210> 12  
 <211> 57  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer to amplify the SM3 scFv sequence

<400> 12  
 cctgaacgtc gcagcggcgg gagccgtgcc gctcttggtg cagctgcagg agtctgg 57

<210> 13  
 <211> 111  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> sequence of the synthetic p11k7.5 promoter

<400> 13  
 ataaaaatat agtagaattt catttgtttt tttctatgct ataaatagga tccgataaag 60  
 tgaaaaataa ttctaattta ttgcacggtg aggaagtaga atcataaaga a 111

<210> 14  
 <211> 53  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer to amplify the p11k7.5 promoter

<400> 14  
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<210> 15  
 <211> 50  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> antisense PCR primer to amplify the p11k7.5 promoter

<400> 15  
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<210> 16  
 <211> 77  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> synthetic sequence

<400> 16  
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 atactactgt gtttaag 77

<210> 17  
 <211> 85  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> synthetic sequence

<400> 17  
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 gccattcccc ctgtcaccat ctgca 85

<210> 18  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> PCR primer to amplify the 5' F13L flanking region of MVA

<400> 18  
gagaggatcc gggatatctag ccacagtaaa tc 32

<210> 19  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense PCR primer to amplify the 5' F13L flanking region of  
MVA

<400> 19  
tttcgaattc ggaatctgta ttctcaatac cg 32

<210> 20  
<211> 33  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> PCR primer to amplify the 3' F13L flanking region of MVA

<400> 20  
atctgaattc gtggagatga tgatagttaa agc 33

<210> 21  
<211> 34  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> antisense PCR primer to amplify the 3' F13L flanking region of  
MVA

<400> 21  
aacaggatcc cttatacatc ctgttctatc aacg 34